



Phonisol BM0100 (2 lb) Sound Barrier Material

Description

Phonisol BM0100 is a heavy, flexible mineral loaded polyvinylchloride sound barrier.

Application

Phonisol BM0100 is designed to improve the sound insulation of existing metal service ducts and pipes at all frequencies. Other applications are in panels, partition walls and floors and carriage construction.

Composition

Phonisol BM0100 is composed of polymers filled with naturally occurring minerals, mainly barium sulphate and calcium carbonate.

In the overall product the approximate proportions by weight are as follows:

Plasticised PVC	appr. 20%
Mineral Fillers	appr. 75%
Pigments/others	appr. 5%.

Phonisol BM0100 contains no lead, unrefined oils or bitumen. All mineral fillers are naturally occurring ground powders which are chemically unaltered from the state at which they were originally mined.

Physical properties

Colour	Anthracite
Roll size (also available in sheets)	1250 mm(w) x 50 m, other dimensions available upon request
Nominal thickness	4,5 mm
Surface	Smooth
Weight	10,0 kg/m ²
Density	2300 kg/m ³
Tear strength	13,4 Kg/cm
Chemical resistance	Resistant to oil, grease, diluted acids, alkalies
Flammability	Self extinguishing according to ASTM D 1692-68, FMVSS-302 SE
Operating temperature	-30°C to +65°C

Note: Phonisol BM0100 is made to a weight tolerance, not to a thickness tolerance.

Acoustic performance

Frequency (Hz)	125	250	500	1000	2000	4000	8000
dB	19	23	27	34	37	41	45

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Additional Testing and Technical Data:

Hardness	90 Shore A (typical measured -85 - 95)
Tensile Strength	2.6 MPa (typical min 1.3MPa)
Elongation	100% (typical min 60%)
Oil Resistance (2 hrs @ 80°C)	Resistance in Diesel - shrinkage <3% Resistant in Mineral oil - shrinkage <3%
Flammability	FMVSS 302 Self-extinguishing ISO 3795 B<1.7mms ⁻¹
Operating Temperature Range (static)	-20°C to +90°C
Mean Sound Reduction Index	(approx) 28dB
Storage Requirements	Inside Storage away from rain and direct sunlight
Shelf Life	Not applicable if stored properly